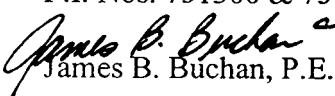


DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE STP-9252(6) & STP-9250(1), Fulton County **OFFICE** Urban Design
Johnson Ferry Road and Abernathy Road from
The Chattahoochee River to Roswell Road **DATE** September 24, 2003
P.I. Nos. 751300 & 751310


FROM  James B. Buchan, P.E., State Urban Design Engineer

TO: Meg Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT: Project Concept Report

SEP 30 2003

Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).


JBB:AVS
Attachment

cc Paul Mullins
Thomas L. Turner
Joseph Palladi, State Transportation Planning Administrator, w/ attachment
Percy Middlebrooks, State Financial Management Administrator, w/attachment
Harvey Keepler, State Environmental/Location Engineer, w/ attachment
Phillip Allen, State Traffic Safety & Design Engineer, w/ attachment
Buddy Gratton, District 7 Engineer, w/ attachment
Paul Liles, State Bridge and Structural Design Engineer, w/ attachment
David Mulling, State Project Review Engineer, w/ attachment

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number: STP-9252(6) & STP-9150(1)

County: Fulton and Cobb

P. I. Number: 751300 & 751310

Federal Route Number: N/A

State Route Number: Johnson Ferry & Abernathy Roads: 947; Roswell Road: 9

Recommendation for approval

DATE 9-25-03


Urban Design Project Manager

DATE 9-25-03


State Urban Design Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE _____
State Transportation Planning Administrator

DATE _____
State Financial Management Administrator

DATE _____
State Environmental/Location Engineer

DATE _____
State Traffic Safety & Design Engineer

DATE _____
District Engineer

DATE _____
Project Review Engineer

DATE _____
State Bridge and Structural Design Engineer

Location Sketch



Need and Purpose: Refer to attachment #1

Description of the proposed project: This project is located in the Sandy Springs area of Fulton County and in Cobb County. The project includes 1.24 miles of *Johnson Ferry Road* improvements from Columns Drive (MP 3.23) to Abernathy Road and .93 miles of *Abernathy Road* improvements from Johnson Ferry Road to Roswell Road (S.R. 9) (MP 12.20).

Is the project located in a Non-attainment area? Yes. The conforming Atlanta Regional Commission (ARC) model shows two through lanes in each direction on *Johnson Ferry Road* and *Abernathy Road*, which is consistent with the proposed design. The Abernathy Road project has a network year of 2010. An additional through lane in each direction is proposed on sections of *Johnson Ferry Road* to facilitate operational improvements.

PDP Classification: Major project

Federal Oversight: Full Oversight (), Exempt (X), State Funded (), or Other ()

Functional Classification: *Johnson Ferry Road:* Urban Principal Arterial
Abernathy Road: Urban Collector

U. S. Route Number(s): N/A

State Route Number(s):

Johnson Ferry Road / Abernathy Road corridor: temporary state route 947
Roswell Road: S.R. 9

Traffic (AADT):

<i>Johnson Ferry Road:</i>	32,000 (2006)	Design Year:	41,700 (2026)
<i>Abernathy Road:</i>	23,000 (2006)	Design Year:	34,600 (2026)

Existing design features:

- **Typical Section:**

Johnson Ferry Road: Four 12' travel lanes with 6' – 10' shoulders.

Abernathy Road: Two 12' travel lanes with 6' – 10' shoulders.

- **Posted speed:** *Johnson Ferry Road:* 35 mph
Abernathy Road: 35 mph

- **Maximum degree of curvature:** *Johnson Ferry Road:* 13.55° (350' radius)
Abernathy Road: 16.37° (422.76' radius)

- **Maximum grade:** 8%

- **Width of right of way:** *Johnson Ferry Road:* 72'
Abernathy Road: 48'

- **Major structures:** A four lane bridge carrying Johnson Ferry Road over the Chattahoochee River built in 1969.
Bridge Structure I.D. No.: 121-0457-0
Sufficiency Rating: 69.60 **Length:** 314' **Width:** 65'
Major interchanges or intersections along the project: Roswell Road (S.R. 9) at Abernathy Road
- **Existing length of roadway segment and mileposts**
Johnson Ferry Road: 1.24 miles from MP 3.23 in Cobb County to MP 1.1 in Fulton County along S.R. 947
Abernathy Road: .93 miles from MP 1.1 to MP 2.03 in Fulton County along S.R. 947

Proposed Design Features:

- **Proposed typical section(s):**
Johnson Ferry Road:
 - **(Columns Drive to Riverside Drive)**
Six 12' travel lanes and a 16' raised median; 4' bike lanes; 16' urban shoulders with 8' sidewalks. Coordination is proposed with the Sandy Springs overlay designs where applicable.
 - **(Bridge over the Chattahoochee River)**
Six 12' travel lanes; a 16' raised median; 4' bike lanes and 10' sidewalks with 2' gutters. A decorative rail parapet is proposed on the bridge.
 - **(Riverside Drive to Abernathy Road)**
Four 11' travel lanes and a 16' raised median; 4' bike lanes; 16' urban shoulders with 8' sidewalks. Coordination is proposed with the Sandy Springs overlay designs where applicable.**Abernathy Road:**
Four 11' travel lanes and a raised median varying in width from 16' to 32' including turn lanes; 4' bike lanes; 16' urban shoulders with 8' sidewalks. Coordination is proposed with the Sandy Springs overlay designs where applicable.
- **Proposed Design Speed Mainline:** 35 mph
- **Proposed Maximum grade Mainline:** 8% **Maximum grade allowable:** 8 %
- **Proposed Maximum grade Side Street:** 8% **Maximum grade allowable:** 8 %.
- **Proposed Maximum grade driveway:** 10 %
- **Proposed Maximum degree of curve:** 13.64° **Maximum degree allowable:** 13.64°
- **Right of way – Johnson Ferry Road (JF) & Abernathy Road (A)**
 - **Width:** (JF): 100' (A): 100' to 116' depending on median width
 - **Easements:** Temporary (), Permanent (X), Utility (X), Other ().
 - **Type of access control:** By permit
 - **Number of parcels:** (JF) 56 (A) 80 **Number of displacements:**
 - Business: None
 - Residences: (JF) 3 (A) 33
 - Mobile homes: None
 - Other: None

- **Structures:**

- **Bridges: *Johnson Ferry Road Bridge over the Chattahoochee:*** The existing bridge will be widened to the east to accommodate six 12' travel lanes; a 16' raised median; 4' bike lanes and 10' sidewalks with 2' gutters. A path is proposed for pedestrians and bicyclists under the north end of the bridge. In addition please find attached the Office of Maintenance's recommendations as a result of the bridge condition survey (**attachment #7**).
- ***Retaining walls on Johnson Ferry Road:***
 - Southeast of the Riverside Drive intersection on *Johnson Ferry Road* on the west side.
 - Underneath the north side of the existing bridge over the Chattahoochee to accommodate the path.
 - Replacement of the existing retaining walls where necessary near the Wycliff (Barnard Place) and Telfair (Redding Drive) neighborhoods on *Johnson Ferry Road*.

- **Major intersections and interchanges:**

- ***The Abernathy Road at Roswell Road intersection:*** The intersection will be improved by adding dual left turns and a median on Roswell Road and *Abernathy Road*. Additional pavement width is proposed on the *Abernathy Road* approaches to match the future project in the RTP from Roswell Road to S.R. 400 (ARC #FN-043 – network year 2015).
- ***The Abernathy Road at Wright Road intersection:*** The intersection has two alternates, a four-legged intersection and a three-legged intersection with the southern side of Wright Road cul-de-saced.

- **Amenities:**

- A pedestrian / bike path underneath the bridge to serve the park and bicycle trail along Columns Drive.
- Landscaping in the median meeting GDOT standards will be considered.

- **Traffic control during construction:** Traffic will be maintained at all times.

- **Design Exceptions to controlling criteria anticipated:**

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)
SUPERELEVATION RATES:	()	()	(X)
HORIZONTAL CLEARANCE:	()	()	(X)
SPEED DESIGN:	()	()	(X)
VERTICAL CLEARANCE:	()	()	(X)
BRIDGE WIDTH:	()	()	(X)
BRIDGE STRUCTURAL CAPACITY:	()	()	(X)

Design Variances:

1. Median width of 16'
 2. Omission of right turn lanes on some of the side streets.
 3. Substandard median opening spacing:
 - The distance between the Roswell Road intersection and the Abernathy Square left-in only (555')
 - The distance between the Abernathy Square left-in only and the Cherry Lane median opening (498')
 - The distance between the Sandy Springs Crossing median opening and the Wright Road open option intersection (569')
- **Environmental concerns:** Potential historical properties and a possible historic district have been identified. Impacts to the Chattahoochee River will need to be minimized and mitigated. Possible blue line tributaries. An archeological site has been identified. A public park will be impacted.
 - **Level of environmental analysis:**
 - Are Time Savings Procedures appropriate? Yes (), No (X),
 - Categorical exclusion (),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (X), or
 - Environmental Impact Statement (EIS) ().
 - **Utility involvements:** to be determined

Project responsibilities:

- Design – Urban Design, GDOT
- Right of Way Acquisition - GDOT
- Relocation of Utilities – By locals
(Cobb signed LGPA in June 13, 1996)
(Fulton has not signed an LGPA yet)
- Letting to contract -GDOT
- Supervision of construction -GDOT
- Providing material pits - Contractor
- Providing detours – GDOT

Coordination

- Concept meeting - July 24, 2003 (minutes attached)
- Public involvement: A Citizens Advisory Committee (CAC) was used to assist in the conceptual development of the project. Two Public Information Meetings were held on December 10, 2002 and March 25, 2003, as well as several neighborhood meetings.
- A P.A.R. may be required (as per OEL's concept report review 10-17-03)
- Local government comments: A greenway along Abernathy Road has been proposed as a separate but integrated project funded by Fulton County.
- Other projects in the area:
 - I-285 / S.R. 400 Interchange including CD system (concept study)
 - Fulton County greenway along Abernathy Road (ARC #FN-034C)
 - I-285 at Riverside Drive

- I-285 at Roswell Road
- Johnson Ferry / Glenridge / SR 947 from Abernathy to Hammond Drive
- HOV projects on I-285 and S.R. 400
- Abernathy Road widening from Roswell Road to S.R. 400
- Morgan Falls bridge over the Chattahoochee River
- Other coordination to date – Contacted the Fulton County police and fire departments to assess the impacts of Wright Road remaining open or being cul-de-saced.
- Railroads – None.

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 18 Months.
- Time to complete preliminary construction plans: 12 Months.
- Time to complete right of way plans: 3 Months.
- Time to complete the Section 404 Permit: 8 Months
- Time to complete final construction plans: 12 Months.
- Time to complete to purchase right of way: 24 Months.

Other alternates considered:

1. No Build Alternate. This option does not address the safety and operational needs of the corridor.
2. Six lanes on Johnson Ferry Road from Columns Drive to River Valley Drive and four lanes from River Valley Drive to Cherry Tree Lane on Abernathy Road. This option was strongly opposed by the local governments and the Citizens Advisory Committee. The right of way impacts and community impacts were deemed too extensive. Operations and safety improvements could be made without six lanes on the Johnson Ferry Road corridor

Attachments:

1. Need and Purpose
2. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities.
3. Sketch location map
4. Typical sections
5. Accident summaries
6. Traffic analysis
7. Bridge inventory and bridge condition survey
8. Minutes of Citizens Advisory Committee meetings and Concept team meeting
9. LGPA's
10. Displays of the corridor
11. Scoring Results as per TOPPS 2440-2